



**PATENT**

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

Application No.: 10/089,254  
Filing Date: March 28, 2002  
Applicant(s): Stefan KAUTZ et al.  
Group Art Unit: 2835  
Examiner: Anatoly VORTMAN  
Title: SWITCHING DEVICE WITH AN ACTUATOR ELEMENT  
CONSISTING OF A SHAPE MEMORY ALLOY  
Attorney Docket: 32860-000285/US

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TECHNOLOGY CENTER 2800

**MAIL STOP NON-FEE AMENDMENT**  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, Virginia 22313-1450

November 17, 2003

**AMENDMENT**

Sir:

In reply to the Office Action dated June 17, 2003, due date having been extended two (2) months to November 17, 2003, the following amendments and remarks are respectfully submitted in connection with the above-identified application.

**Currently Pending Claims** begin on page 2 of this Amendment.

**Remarks** begin on page 9 of this Amendment.

11/20/2003 MMEKONEN 00000103 10089254

01 FC:1202

108.00 OP

11/20/2003 MMEKONEN 00000103 10089254

02 FC:1252

420.00 OP

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 PATENT & TRADEMARK OFFICE

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# TRANSMITTAL FORM

(to be used for all correspondence after initial filing)

|                        |                     |
|------------------------|---------------------|
| Application Number     | 10/089,254          |
| Filing Date            | March 28, 2002      |
| Inventor(s)            | Stefan KAUTZ et al. |
| Group Art Unit         | 2835                |
| Examiner Name          | Anatoly VORTMAN     |
| Attorney Docket Number | 32860-000285/US     |

## ENCLOSURES (check all that apply)

☒ Fee Transmittal Form

☒ Fee Attached

☒ Amendment

☐ After Final

☐ Affidavits/declaration(s)

☐ Extension of Time Request

☐ Express Abandonment Request

☐ Information Disclosure Statement

☐ Certified Copy of Priority Document(s)

☐ Response to Missing Parts/Incomplete Application

☐ Response to Missing Parts under 37 CFR 1.52 or 1.53

☐ Assignment Papers (for an Application)

☐ Letter to the Official Draftsperson and \_\_\_\_\_ Sheets of Formal Drawing(s)

☐ Licensing-related Papers

☐ Petition

☐ Petition to Convert to a Provisional Application

☐ Power of Attorney, Revocation Change of Correspondence Address

☐ Terminal Disclaimer

☐ Request for Refund

☐ CD, Number of CD(s) \_\_\_\_\_

☐ After Allowance Communication to Group

☐ LETTER SUBMITTING APPEAL BRIEF AND APPEAL BRIEF (w/clean version of pending claims)

☐ Appeal Communication to Group (Notice of Appeal, Brief, Reply Brief)

☐ Proprietary Information

☐ Status Letter

☐ Other Enclosure(s) (please identify below):

Remarks

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## SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name

Harness, Dickey & Pierce, P.L.C.

Attorney Name  
Donald J. Daley

Reg. No.  
34,313

Signature

Date

November 17, 2003

*Donald J. Daley*

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# **FEE TRANSMITTAL for FY 2003**

Patent fees are subject to annual revision.

## **Complete If Known**

Application Number 10/089,254  
 Filing Date March 28, 2002  
 Inventor(s) Stefan KAUTZ et al.  
 Examiner Name Anatoly VORTMAN  
 Group / Art Unit 2835  
 Attorney Docket No. 32860-000285/US

**TOTAL AMOUNT OF PAYMENT** (\$) 528.00

| METHOD OF PAYMENT (check one)   |                       | FEE CALCULATION (continued)   |                       |  |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
|---|-----------------------|---|-----------------------|--|-----------------------|-----------------------|-----------------------|-----------------|----------|--------------------|-----|------|-----|-------------------------------------|--|------|-----|----------------|-----------------------|---|-----------------------|-----------------|----------|------|-----|---------------------------|---|------------------------|-------|------|-------|--|----|-----------------------------------|------|------|------|--|-----|---------------------------------------|--------|------|--------|---|----|--|-----|------|----|--|---|--|-----|-------------------------------------|-----|---|-----|------|-----|------|-----|--|--|------|-------|------|-----|---|--|------|-------|------|-------|--|--|------|-----|------|-----|------------------|--|------|-----|------|-----|--|--|------|-----|------|-----|--------------------------|--|------|-------|------|-------|---|--|------|-----|------|----|----------------------------------|--|------|-------|------|-----|------------------------------------|--|------|-------|------|-----|--------------------------------|--|------|-----|------|-----|------------------|--|------|-----|------|-----|-----------------|--|------|-----|------|-----|-------------------------------|--|------|----|------|----|--------------------------------------|--|------|-----|------|-----|---|--|------|----|------|----|--|--|------|-----|------|-----|---|--|------|-----|------|-----|--|--|------|-----|------|-----|---|--|------|-----|------|-----|---|--|
| <p>1. <input type="checkbox"/> The Commissioner is hereby authorized to charge indicated fees and credit any over payments to:</p> <p>Deposit Account Number 08-0750</p> <p>Deposit Account Name Harness, Dickey &amp; Pierce, P.L.C.</p> <p><input checked="" type="checkbox"/> Charge Any Additional Fee Required Under 37 CFR 1.16 and 1.17</p> <p><input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27</p>  |                       | <p>3. ADDITIONAL FEES</p> <table border="1"> <thead> <tr> <th>Fee Code</th> <th>Large Entity Fee (\$)</th> <th>Small Entity Fee Code</th> <th>Small Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>1051</td> <td>130</td> <td>2051</td> <td>65</td> <td>Surcharge - late filing fee or oath</td> <td></td> </tr> <tr> <td>1052</td> <td>50</td> <td>2052</td> <td>25</td> <td>Surcharge - late provisional filing fee or cover sheet.</td> <td></td> </tr> <tr> <td>1053</td> <td>1053</td> <td>1053</td> <td>130</td> <td>Non-English specification</td> <td></td> </tr> <tr> <td>1812</td> <td>2,520</td> <td>1812</td> <td>2,520</td> <td>For filing a request for reexamination</td> <td></td> </tr> <tr> <td>1804</td> <td>920*</td> <td>1804</td> <td>920*</td> <td>Requesting publication of SIR prior to Examiner action</td> <td></td> </tr> <tr> <td>1805</td> <td>1,840*</td> <td>1805</td> <td>1,840*</td> <td>Requesting publication of SIR after Examiner action</td> <td></td> </tr> <tr> <td>1251</td> <td>110</td> <td>2251</td> <td>55</td> <td>Extension for reply within first month</td> <td></td> </tr> <tr> <td>1252</td> <td>420</td> <td>2252</td> <td>210</td> <td>Extension for reply within second month</td> <td>420</td> </tr> <tr> <td>1253</td> <td>950</td> <td>2253</td> <td>475</td> <td>Extension for reply within third month</td> <td></td> </tr> <tr> <td>1254</td> <td>1,480</td> <td>2254</td> <td>740</td> <td>Extension for reply within fourth month</td> <td></td> </tr> <tr> <td>1255</td> <td>2,010</td> <td>2255</td> <td>1,005</td> <td>Extension for reply within fifth month</td> <td></td> </tr> <tr> <td>1401</td> <td>330</td> <td>2401</td> <td>165</td> <td>Notice of Appeal</td> <td></td> </tr> <tr> <td>1402</td> <td>330</td> <td>2402</td> <td>165</td> <td>Filing a brief in support of an appeal</td> <td></td> </tr> <tr> <td>1403</td> <td>290</td> <td>2403</td> <td>145</td> <td>Request for oral hearing</td> <td></td> </tr> <tr> <td>1451</td> <td>1,510</td> <td>1451</td> <td>1,510</td> <td>Petition to institute a public use proceeding</td> <td></td> </tr> <tr> <td>1452</td> <td>110</td> <td>2452</td> <td>55</td> <td>Petition to revive - unavoidable</td> <td></td> </tr> <tr> <td>1453</td> <td>1,330</td> <td>2453</td> <td>665</td> <td>Petition to revive - unintentional</td> <td></td> </tr> <tr> <td>1501</td> <td>1,330</td> <td>2501</td> <td>665</td> <td>Utility issue fee (or reissue)</td> <td></td> </tr> <tr> <td>1502</td> <td>480</td> <td>2502</td> <td>240</td> <td>Design issue fee</td> <td></td> </tr> <tr> <td>1503</td> <td>640</td> <td>2503</td> <td>320</td> <td>Plant issue fee</td> <td></td> </tr> <tr> <td>1460</td> <td>130</td> <td>1460</td> <td>130</td> <td>Petitions to the Commissioner</td> <td></td> </tr> <tr> <td>1807</td> <td>50</td> <td>1807</td> <td>50</td> <td>Processing fee under 37 CFR 1.17 (q)</td> <td></td> </tr> <tr> <td>1806</td> <td>180</td> <td>1806</td> <td>180</td> <td>Submission of Information Disclosure Stmt</td> <td></td> </tr> <tr> <td>8021</td> <td>40</td> <td>8021</td> <td>40</td> <td>Recording each patent assignment per property (times number of properties)</td> <td></td> </tr> <tr> <td>1809</td> <td>770</td> <td>2809</td> <td>385</td> <td>Filing a submission after final rejection (37 CFR § 1.129(a))</td> <td></td> </tr> <tr> <td>1810</td> <td>770</td> <td>2810</td> <td>385</td> <td>For each additional invention to be examined (37 CFR § 1.129(b))</td> <td></td> </tr> <tr> <td>1801</td> <td>770</td> <td>2801</td> <td>385</td> <td>Request for Continued Examination (RCE)</td> <td></td> </tr> <tr> <td>1802</td> <td>900</td> <td>1802</td> <td>900</td> <td>Request for expedited examination of a design application</td> <td></td> </tr> </tbody> </table> <p>Other fee (specify) _____</p> |                       | Fee Code   | Large Entity Fee (\$) | Small Entity Fee Code | Small Entity Fee (\$) | Fee Description | Fee Paid | 1051               | 130 | 2051 | 65  | Surcharge - late filing fee or oath |  | 1052 | 50  | 2052           | 25                    | Surcharge - late provisional filing fee or cover sheet. |                       | 1053            | 1053     | 1053 | 130 | Non-English specification |   | 1812                   | 2,520 | 1812 | 2,520 | For filing a request for reexamination |    | 1804                              | 920* | 1804 | 920* | Requesting publication of SIR prior to Examiner action |     | 1805                                  | 1,840* | 1805 | 1,840* | Requesting publication of SIR after Examiner action |    | 1251   | 110 | 2251 | 55 | Extension for reply within first month |   | 1252   | 420 | 2252                                | 210 | Extension for reply within second month | 420 | 1253 | 950 | 2253 | 475 | Extension for reply within third month |  | 1254 | 1,480 | 2254 | 740 | Extension for reply within fourth month |  | 1255 | 2,010 | 2255 | 1,005 | Extension for reply within fifth month |  | 1401 | 330 | 2401 | 165 | Notice of Appeal |  | 1402 | 330 | 2402 | 165 | Filing a brief in support of an appeal |  | 1403 | 290 | 2403 | 145 | Request for oral hearing |  | 1451 | 1,510 | 1451 | 1,510 | Petition to institute a public use proceeding |  | 1452 | 110 | 2452 | 55 | Petition to revive - unavoidable |  | 1453 | 1,330 | 2453 | 665 | Petition to revive - unintentional |  | 1501 | 1,330 | 2501 | 665 | Utility issue fee (or reissue) |  | 1502 | 480 | 2502 | 240 | Design issue fee |  | 1503 | 640 | 2503 | 320 | Plant issue fee |  | 1460 | 130 | 1460 | 130 | Petitions to the Commissioner |  | 1807 | 50 | 1807 | 50 | Processing fee under 37 CFR 1.17 (q) |  | 1806 | 180 | 1806 | 180 | Submission of Information Disclosure Stmt |  | 8021 | 40 | 8021 | 40 | Recording each patent assignment per property (times number of properties) |  | 1809 | 770 | 2809 | 385 | Filing a submission after final rejection (37 CFR § 1.129(a)) |  | 1810 | 770 | 2810 | 385 | For each additional invention to be examined (37 CFR § 1.129(b)) |  | 1801 | 770 | 2801 | 385 | Request for Continued Examination (RCE) |  | 1802 | 900 | 1802 | 900 | Request for expedited examination of a design application |  |
| Fee Code  | Large Entity Fee (\$) | Small Entity Fee Code   | Small Entity Fee (\$) | Fee Description  | Fee Paid              |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1051  | 130                   | 2051  | 65                    | Surcharge - late filing fee or oath  |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1052  | 50                    | 2052  | 25                    | Surcharge - late provisional filing fee or cover sheet.                    |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1053  | 1053                  | 1053  | 130                   | Non-English specification  |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1812  | 2,520                 | 1812  | 2,520                 | For filing a request for reexamination                                     |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1804  | 920*                  | 1804  | 920*                  | Requesting publication of SIR prior to Examiner action                     |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1805  | 1,840*                | 1805  | 1,840*                | Requesting publication of SIR after Examiner action                        |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1251  | 110                   | 2251  | 55                    | Extension for reply within first month                                     |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1252  | 420                   | 2252  | 210                   | Extension for reply within second month                                    | 420                   |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1253  | 950                   | 2253  | 475                   | Extension for reply within third month                                     |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1254  | 1,480                 | 2254  | 740                   | Extension for reply within fourth month                                    |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1255  | 2,010                 | 2255  | 1,005                 | Extension for reply within fifth month                                     |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1401  | 330                   | 2401  | 165                   | Notice of Appeal   |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1402  | 330                   | 2402  | 165                   | Filing a brief in support of an appeal                                     |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1403  | 290                   | 2403  | 145                   | Request for oral hearing   |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1451  | 1,510                 | 1451  | 1,510                 | Petition to institute a public use proceeding                              |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1452  | 110                   | 2452  | 55                    | Petition to revive - unavoidable   |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1453  | 1,330                 | 2453  | 665                   | Petition to revive - unintentional   |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1501  | 1,330                 | 2501  | 665                   | Utility issue fee (or reissue)   |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1502  | 480                   | 2502  | 240                   | Design issue fee   |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1503  | 640                   | 2503  | 320                   | Plant issue fee  |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1460  | 130                   | 1460  | 130                   | Petitions to the Commissioner  |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1807  | 50                    | 1807  | 50                    | Processing fee under 37 CFR 1.17 (q)                                       |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1806  | 180                   | 1806  | 180                   | Submission of Information Disclosure Stmt                                  |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 8021  | 40                    | 8021  | 40                    | Recording each patent assignment per property (times number of properties) |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1809  | 770                   | 2809  | 385                   | Filing a submission after final rejection (37 CFR § 1.129(a))              |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1810  | 770                   | 2810  | 385                   | For each additional invention to be examined (37 CFR § 1.129(b))           |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1801  | 770                   | 2801  | 385                   | Request for Continued Examination (RCE)                                    |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1802  | 900                   | 1802  | 900                   | Request for expedited examination of a design application                  |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| <p>2. <input checked="" type="checkbox"/> Payment Enclosed:</p> <p><input checked="" type="checkbox"/> Check <input type="checkbox"/> Credit card <input type="checkbox"/> Money Order <input type="checkbox"/> Other</p>   |                       | <p><b>FEE CALCULATION</b></p> <p>1. BASIC FILING FEE</p> <table border="1"> <thead> <tr> <th>Large Fee Code</th> <th>Large Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Small Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>1001</td> <td>770</td> <td>2001</td> <td>385</td> <td>Utility filing fee</td> <td></td> </tr> <tr> <td>1002</td> <td>340</td> <td>2002</td> <td>170</td> <td>Design filing fee</td> <td></td> </tr> <tr> <td>1003</td> <td>530</td> <td>2003</td> <td>265</td> <td>Plant filing fee</td> <td></td> </tr> <tr> <td>1004</td> <td>770</td> <td>2004</td> <td>385</td> <td>Reissue filing fee</td> <td></td> </tr> <tr> <td>1005</td> <td>160</td> <td>2005</td> <td>80</td> <td>Provisional filing fee</td> <td></td> </tr> </tbody> </table> <p><b>SUBTOTAL (1)</b> (\$) 0</p>   |                       | Large Fee Code   | Large Entity Fee (\$) | Small Fee Code        | Small Entity Fee (\$) | Fee Description | Fee Paid | 1001               | 770 | 2001 | 385 | Utility filing fee                  |  | 1002 | 340 | 2002           | 170                   | Design filing fee                                       |                       | 1003            | 530      | 2003 | 265 | Plant filing fee          |   | 1004                   | 770   | 2004 | 385   | Reissue filing fee                     |    | 1005                              | 160  | 2005 | 80   | Provisional filing fee                                 |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| Large Fee Code  | Large Entity Fee (\$) | Small Fee Code  | Small Entity Fee (\$) | Fee Description  | Fee Paid              |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1001  | 770                   | 2001  | 385                   | Utility filing fee   |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1002  | 340                   | 2002  | 170                   | Design filing fee  |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1003  | 530                   | 2003  | 265                   | Plant filing fee   |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1004  | 770                   | 2004  | 385                   | Reissue filing fee   |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1005  | 160                   | 2005  | 80                    | Provisional filing fee   |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| <p>2. EXTRA CLAIM FEES</p> <table border="1"> <thead> <tr> <th>Total Claims</th> <th>Extra Claims</th> <th>Fee from below</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>36</td> <td>-30 ** = 6</td> <td>18</td> <td>108</td> </tr> <tr> <td>Independent Claims</td> <td>0</td> <td></td> <td>0</td> </tr> <tr> <td>Multiple Dependent</td> <td></td> <td></td> <td>0</td> </tr> </tbody> </table> <table border="1"> <thead> <tr> <th>Large Fee Code</th> <th>Large Entity Fee (\$)</th> <th>Small Fee Code</th> <th>Small Entity Fee (\$)</th> <th>Fee Description</th> <th>Fee Paid</th> </tr> </thead> <tbody> <tr> <td>1202</td> <td>18</td> <td>2202</td> <td>9</td> <td>Claims in excess of 20</td> <td></td> </tr> <tr> <td>1201</td> <td>86</td> <td>2201</td> <td>43</td> <td>Independent claims in excess of 3</td> <td></td> </tr> <tr> <td>1203</td> <td>290</td> <td>2203</td> <td>145</td> <td>Multiple dependent claim, if not paid</td> <td></td> </tr> <tr> <td>1204</td> <td>86</td> <td>2204</td> <td>43</td> <td>** Reissue independent claims over original patent</td> <td></td> </tr> <tr> <td>1205</td> <td>18</td> <td>2205</td> <td>9</td> <td>** Reissue claims in excess of 20 and over original patent</td> <td></td> </tr> </tbody> </table> <p><b>SUBTOTAL (2)</b> (\$) 108</p> |                       | Total Claims  | Extra Claims          | Fee from below   | Fee Paid              | 36                    | -30 ** = 6            | 18              | 108      | Independent Claims | 0   |      | 0   | Multiple Dependent                  |  |      | 0   | Large Fee Code | Large Entity Fee (\$) | Small Fee Code  | Small Entity Fee (\$) | Fee Description | Fee Paid | 1202 | 18  | 2202                      | 9 | Claims in excess of 20 |       | 1201 | 86    | 2201                                   | 43 | Independent claims in excess of 3 |      | 1203 | 290  | 2203   | 145 | Multiple dependent claim, if not paid |        | 1204 | 86     | 2204  | 43 | ** Reissue independent claims over original patent |     | 1205 | 18 | 2205                                   | 9 | ** Reissue claims in excess of 20 and over original patent |     | <p><b>SUBTOTAL (3)</b> (\$) 420</p> |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| Total Claims  | Extra Claims          | Fee from below  | Fee Paid              |  |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 36  | -30 ** = 6            | 18  | 108                   |  |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| Independent Claims  | 0                     |   | 0                     |  |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| Multiple Dependent  |                       |   | 0                     |  |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| Large Fee Code  | Large Entity Fee (\$) | Small Fee Code  | Small Entity Fee (\$) | Fee Description  | Fee Paid              |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1202  | 18                    | 2202  | 9                     | Claims in excess of 20   |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1201  | 86                    | 2201  | 43                    | Independent claims in excess of 3  |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1203  | 290                   | 2203  | 145                   | Multiple dependent claim, if not paid                                      |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1204  | 86                    | 2204  | 43                    | ** Reissue independent claims over original patent                         |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |
| 1205  | 18                    | 2205  | 9                     | ** Reissue claims in excess of 20 and over original patent                 |                       |                       |                       |                 |          |                    |     |      |     |                                     |  |      |     |                |                       |   |                       |                 |          |      |     |                           |   |                        |       |      |       |  |    |                                   |      |      |      |  |     |                                       |        |      |        |   |    |  |     |      |    |  |   |  |     |                                     |     |   |     |      |     |      |     |  |  |      |       |      |     |   |  |      |       |      |       |  |  |      |     |      |     |                  |  |      |     |      |     |  |  |      |     |      |     |                          |  |      |       |      |       |   |  |      |     |      |    |                                  |  |      |       |      |     |                                    |  |      |       |      |     |                                |  |      |     |      |     |                  |  |      |     |      |     |                 |  |      |     |      |     |                               |  |      |    |      |    |                                      |  |      |     |      |     |   |  |      |    |      |    |  |  |      |     |      |     |   |  |      |     |      |     |  |  |      |     |      |     |   |  |      |     |      |     |   |  |

\*\*or number previously paid, if greater; For Reissues, see above

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|-------------------|-----------------|---------------------------------|--------|-------------------|--------------|
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| Signature         |                 |                                 | Date   | November 17, 2003 |              |

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